IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Currently amended) A method for transferring data comprising:

performing a first synchronization operation wherein the first synchronization operation

uses a first processing thread to copy copies a first file from a first memory data storage to a

second memory data storage, and a second processing thread to copy a second file from the first

memory data storage to the second memory data storage, wherein the first file is copied

substantially concurrently with the copying of the second file, and wherein the first operation

results in a first copied file and a second copied file in the second memory data storage; and

performing a second real-time replication operation wherein the second real-time

replication operation updates the first copied file and the second copied file in a predetermined

an order determined at least in part by an order in which changes were made to the first file and

the second file, respectively, as stored in the first data storage.

2. (Cancelled)

3. (Cancelled)

4. (Original) The method of claim 1, wherein the first file and the second file are copied

4

regardless of order.

5. (Cancelled)

Application Serial No. 10/611,312

Attorney Docket No. LEGAP005

- 6. (Original) The method of claim 1, wherein a first command associated with the first operation can be processed by a first thread or a second thread, and a second command associated with the second operation can be processed by the second thread.
- 7. (Currently amended) The method of claim 1, wherein the copying of the first file is associated with a first connection between the first memory data storage and the second memory data storage, and the copying of the second file is associated with a second connection between the first memory data storage and the second memory data storage.
- 8. (Currently amended) A system for transferring data comprising:

a processor;

a first memory data storage coupled to the processor, wherein the first memory data storage is associated with a first file and a second file; and

wherein the processor is configured to perform a first synchronization operation wherein the first synchronization operation uses a first processing thread to copy eopies the first file from the first memory data storage to a second memory data storage, and a second processing thread to copy a second file from the first memory data storage to the second memory data storage, wherein the first file is copied substantially concurrently with the copying of the second file, and wherein the first operation results in a first copied file in the second memory data storage and a second copied file in the second memory data storage; and also configured to perform a second real-time replication operation wherein the second real-time replication operation updates the first copied file and the second copied file in a predetermined an order determined at least in part by an order in which changes were made to the first file and the second file, respectively, as stored in the first data storage.

Application Serial No. 10/611,312 Attorney Docket No. LEGAP005 9. (Currently amended) A method for transferring data associated with a real-time data replication system comprising:

providing a first main thread, wherein the first main thread can process a first synchronization type of command and a second dynamic replication type[[s]] of command[[s]];

providing a second synchronization thread, wherein the second synchronization thread can process the first synchronization type of command but not the dynamic replication type of command;

wherein the synchronization thread is configured to process a command of the synchronization type substantially concurrently with the processing a first command by the [[first]] main thread of a command of the synchronization type and to not process a command of the synchronization type at a time when the main thread is processing a command of the dynamic replication typeand a second command by the second thread, wherein the first and second commands are associated with the first type of command.

- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Cancelled)

- 16. (Cancelled)
- 17. (Cancelled)
- 18. (Currently amended) A system for transferring data associated with a real-time data replication system comprising:

a processor configured to provide a first main thread, wherein the first main thread can process a first synchronization type of command and a second dynamic replication type[[s]] of command[[s]]; also configured to provide a second synchronization thread, wherein the second synchronization thread can process the first synchronization type of command but not the dynamic replication type of command; [[and]] wherein the processor also synchronization thread is configured to process a command of the synchronization type substantially concurrently with the processing by the main thread of a command of the synchronization type and to not process a command of the synchronization type at a time when the main thread is processing a command of the dynamic replication type transfer a first command by the first thread and a second command by the second thread, wherein the first and second commands are associated with the first type of command; and

a memory coupled to the processor for providing the processor with instructions.

19. (Currently amended) A computer program product for transferring data, the computer program product being embodied in a computer readable medium and comprising computer instructions for:

performing a first synchronization operation wherein the first synchronization operation uses a first processing thread to copy copies a first file from a first memory data storage to a second memory data storage, and a second processing thread to copy a second file from the first

memory <u>data storage</u> to the second <u>memory data storage</u>, wherein the first file is copied substantially concurrently with the copying of the second file, and wherein the first operation results in a first copied file and a second copied file in the second <u>memory data storage</u>; and

performing a second <u>real-time replication</u> operation wherein the second <u>real-time</u> replication operation updates the first copied file and the second copied file in a predetermined an order <u>determined</u> at least in part by an order in which changes were made to the first file and the second file, respectively, as stored in the first data storage.

20. (Currently amended) A computer program product for transferring data associated with a real-time data replication system, the computer program product being embodied in a computer readable medium and comprising computer instructions for:

providing a first main thread, wherein the first main thread can process a first synchronization type of command and a second dynamic replication type[[s]] of command[[s]];

providing a second synchronization thread, wherein the second synchronization thread can process the first synchronization type of command but not the dynamic replication type of command;

wherein the synchronization thread is configured to process a command of the synchronization type substantially concurrently with the processing a first command by the [[first]] main thread of a command of the synchronization type and to not process a command of the synchronization type at a time when the main thread is processing a command of the dynamic replication type and a second command by the second thread, wherein the first and second commands are associated with the first type of command.

21. (New) The method of claim 9 wherein the main thread, the synchronization thread, or both process commands from a kernel cache.

Application Serial No. 10/611,312
Attorney Docket No. LEGAP005

- 22. (New) The method of claim 21 wherein the synchronization thread skips commands in the kernel cache that have been or are being processed by other threads until it finds a synchronization command that has not yet been and is not currently being processed by another thread.
- 23. (New) The method of claim 21 wherein when the synchronization thread does not move ahead of the main thread unless the main thread is performing a synchronization command.
- 24. (New) The method of claim 21 wherein if a synchronization thread does not encounter synchronization commands in the kernel cache, the synchronization thread closes after a time interval.
- 25. (New) The method of claim 9 wherein the main thread does not process dynamic replication types of commands unless all synchronization threads that are executing synchronization commands are completed.